

# Central Federal Lands Highway Division

## Project Schedule and Resource Management

Version (Date): July 22, 2005

Activity ID: G1	Activity Title: Preliminary Geotechnical
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Activity Definition: Conduct preliminary geotechnical investigation, including visual and/or limited subsurface investigations pertaining to general roadway condition surveys, geotechnical hazards, anticipated excavations and structures, material sources, and general constructability issues.

Predecessor Activities (ID's) & Relationships (i.e.: FS, SS, or FF) & Time Lag:	Successor Activities (ID's) & Relationships (i.e.: FS, SS, or FF) & Time Lag:
1. Pred: P1 Rel: FS Lag: 0	1. Succ: D1 Rel: FF Lag: 20
2. Pred: Rel: Lag:	2. Succ: E2 Rel: FS Lag: 0
3. Pred: Rel: Lag:	3. Succ: G2 Rel: FS Lag: 0
4. Pred: Rel: Lag:	4. Succ: V1 Rel: FF Lag:
	On 3r Jobs
5. Pred: Rel: Lag:	5. Succ: Rel: Lag:
6. Pred: Rel: Lag:	6. Succ: Rel: Lag:

### Required Activity Tasks:

1. Assemble project background and setting information.
2. Develop a preliminary field investigation plan.
3. Obtain necessary access and drilling permits, utility clearances, etc.
4. Procure investigation services (drilling, test pits, geophysical surveys, traffic control, etc.).
5. Characterize general roadway and structures condition.
6. Identify roadway geotechnical repair areas.
7. Identify possible material sources.
8. Investigate potential cut/fill materials.
9. Complete all borings/excavations to a condition acceptable to the COTR.
10. Conduct lab testing for culverts, cut and fill materials, and material sources.

11. Identify geological and geotechnical hazards.
12. Identify constructability issues.
13. Prepare “Preliminary Geotechnical Report” summarizing field review, and including recommendations for the following:
  - Subsurface drainage.
  - Culvert materials.
  - Cut and fill slope ratios and construction requirements.
  - Suitable/unsuitable soils and aggregates by location.
  - Soil and rock shrink/swell properties.
  - Roadway repair requirements.
  - Topsoil depths and distribution.
  - Anticipated structure foundation requirements.
14. Review 30% plans.